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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/036,675	12/31/2001	Bora Eryilmaz	04899-064001	4996

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EXAMINER

ORTIZ RODRIGUEZ, CARLOS R

ART UNIT	PAPER NUMBER
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2125

DATE MAILED: 07/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/036,675

Applicant(s)

ERYILMAZ ET AL.

Examiner

Carlos Ortiz-Rodriguez

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 February 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-39 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-14, 25, 27 and 29-33 is/are rejected.
- 7) ☒ Claim(s) 15-24, 26, 28 and 34-39 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 2/28/02.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Objections

1. Claims 15-24 and 26 and 28 and 34-39 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claims 1-3, 10-14, 25, 27, and 33 rejected under 35 U.S.C. 102(e) as being anticipated by Aberg U.S. Pub No. 2003/0018953.

Regarding claims 1, 25 and 33, Aberg discloses a table lookup method, comprising: providing to a graphical block diagram model a graphical block that defines a lookup table and

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having inputs for receiving input data (Page 1, Paragraph 0004); and using the graphical block to update content stored in the lookup table based on received input data (Page 1, Paragraph 0002).

Regarding claims 2 and 3, Aberg discloses wherein the graphical block includes block inputs, the block inputs including block input ports for connection to at least one other graphical block in a graphical block diagram model so that the input data can be received by the graphical block at the input ports from the at least one other graphical block (Page 1, Paragraph 0005).

Regarding claim 10, Aberg discloses maintaining the graphical block in a block library; and instantiating the graphical block to create the lookup table (Page 2, Paragraph 0003, Lines 1-13).

Regarding claim 11, Aberg discloses receiving parameters from a user to instantiate the graphical block (Page 2, Paragraph 0003, Lines 16-21).

Regarding claim 12, wherein receiving comprises providing the user with a dialog box for specifying values of the parameters of the graphical block is inherent to Aberg.

Regarding claims 13 and 14 Aberg discloses wherein the parameters comprise breakpoint data and initial table data (Page 2, Paragraph 0002, Lines 12-16).

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Regarding claim 27, wherein the lookup table is included in a simulation model that simulates an embedded control system is inherent to Aberg.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 4-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aberg U.S. Pub. No. 2003/0018953 in view of Zhang et al. U.S. Patent No. 6,138,642.

Regarding claims 4-9 Aberg discloses all the limitations of the base claims.

But Aberg fails to clearly specify receiving input data and output data of the plant.

However Zhang et al. disclose wherein the lookup table is used to capture the behavior of a plant, and the received input data comprises the input data and output data of the plant, and wherein the plant input data comprises a value for at least one plant input, and wherein the plant output data is measured data, and wherein the plant input data and output data are received from the plant in real-time, and wherein the plant input data and output data are read from a storage device, and wherein the block diagram model is a model of a plant that includes a lookup table, and the plant output data is simulated data produced when the model is executed (C2 L1-10).

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Therefore at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to modify the above invention suggested by Aberg and combining it with the invention disclosed by Zhang et al. The results of this combination would lead to adaptive lookup table: a graphical simulation component for recursively updating numeric data stored in table form.

One of ordinary skill in the art would have been motivated to do this modification because it is known in the art to detect input and output values of components of a system and inputting these values to a lookup table as suggested by Zhang et al.

6. Claims 29-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aberg U.S. Pub. No. 2003/0018953 in view of Pomerantz U.S. Patent No. 4,270,503.

Regarding claims 29-32 Aberg discloses all the limitations of the base claim.

But Aberg fails to clearly specify providing an adaptation control signal to the lookup table.

However Pomerantz disclose wherein the block inputs further include an adaptation control signal to enable or disable the lookup table content updating, and wherein the block inputs are configured to connect to a locking mechanism that restricts the content updating to a particular cell in the lookup table, and wherein the block output further includes a copy of the lookup table content at all table locations after the updating is completed and wherein the block output includes a table index number corresponding to the location of the updated content (C11 L1-24).

Therefore at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to modify the above invention suggested by Aberg and combining it with the invention disclosed by Pomerantz.

One of ordinary skill in the art would have been motivated to do this modification because it is known in the art to provide an adaptation control signal to enable or disable the lookup table content updating as suggested by Pomerantz.

Citation of Pertinent Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following patents are cited to further show the state of the art with respect to adaptive lookup table: a graphical simulation component for recursively updating numeric data stored in table form:

- a. U.S. Pat. No. 5,432,700 to Hrovat et al., which discloses adaptive active vehicle suspension system.
- b. U.S. Pat. No. 5,594,655 to Berchin, which discloses method and apparatus for frequency triggering in digital oscilloscopes and the like.
- c. U.S. Pat. No. 5,821,934 to Kodosky et al., which discloses method and apparatus for providing stricter data type capabilities in a graphical data flow diagram.
- d. U.S. Pat. No. 5,974,254 to Hsu, which discloses method for detecting differences between graphical programs.
- e. U.S. Pat. No. 6,035,632 to Stander et al., which discloses step response catalyst monitoring.

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f. U.S. Pat. No. 6,102,965 to Dye et al., which discloses system and method for providing client/server access to graphical programs.

g. U.S. Pat. No. 6,242,873 to Drozd et al., which discloses method and apparatus for adaptive hybrid vehicle control.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carlos Ortiz-Rodriguez whose telephone number is (571) 272-3747. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo P. Picard can be reached on (571) 272-3749. The central official fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo P Picard can be reached on (703)308-0538. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

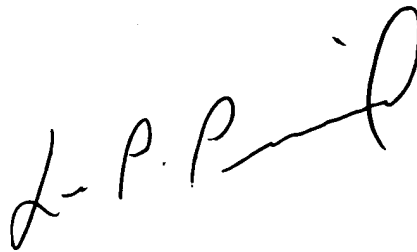
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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Carlos Ortiz-Rodriguez
Patent Examiner
Art Unit 2125

cror

June 26, 2005

A handwritten signature in black ink, appearing to read "L. P. Picard", written in a cursive style.

LEO PICARD
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100